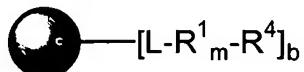


In the claims:

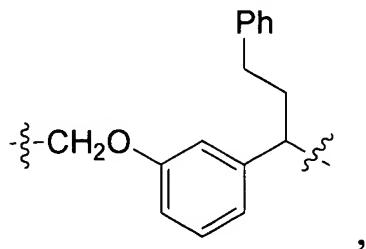
1. (Original) A process for the preparation of a compound of the formula I:



I

wherein

is an insoluble solid support selected from the group consisting of: poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-CH_2-$, $-C(CH_3)_2-$, $-CH(CH_3)-$, $-(CH_2)_nCH(CN)-$, $-(CH_2)_nCH(CO_2Me)-$, $-(CH_2)_nCH(Ph)-$, $-(CH_2)_nC(CH_3, Ph)-$, $CH(CH_2CH_2Ph)-$, or

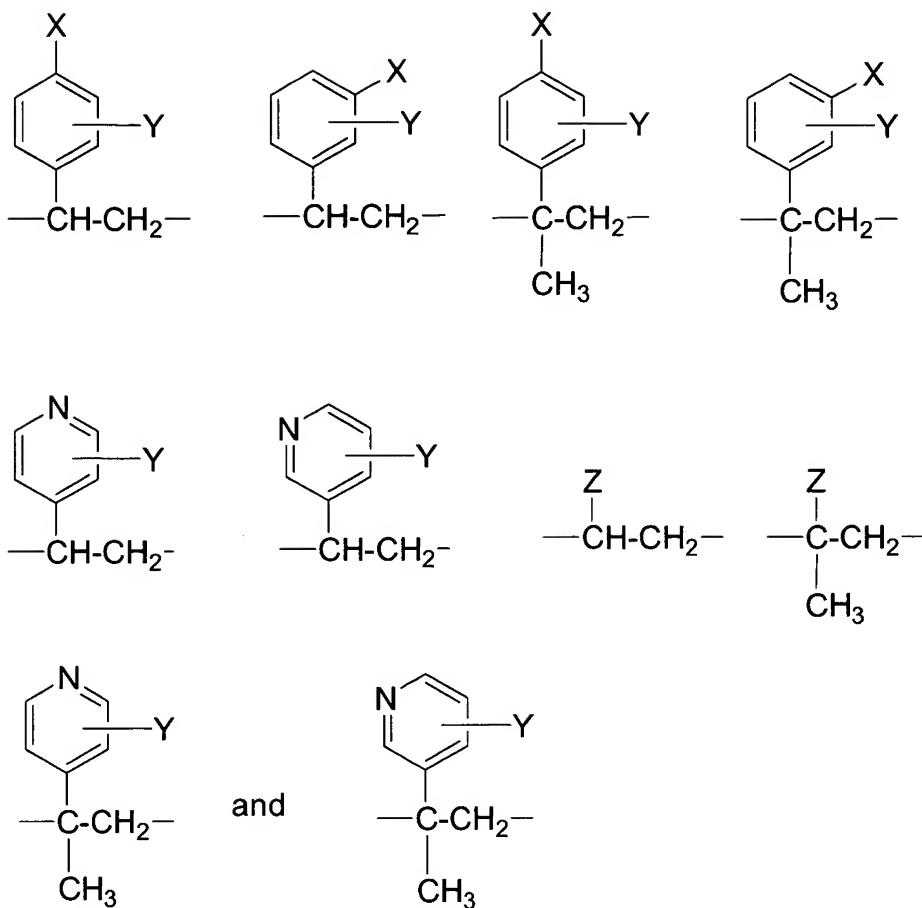


n is zero or an integer from 1 to 5;

m is zero or an integer from 1 to 100;

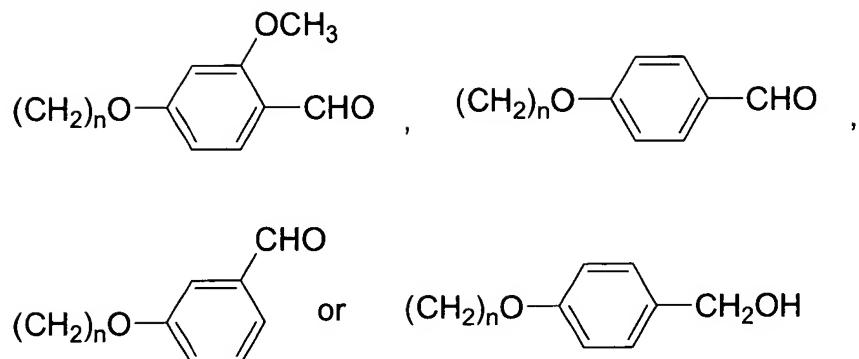
b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R^1 is selected from:



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO , $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me , CO_2Et , $CO_2(t-Bu)$, CO_2H , COCl, $CO_2CH(CF_3)_2$, CO_2Ph , CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2 (N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_2OH$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$, $CH_2N(CH_2CH_2NH_2)_2$, $CH_2NHCH_2CH_2N(CH_2CH_2NH_2)_2$, $CH_2N(CH_2CH_2OH)_2$, $(CH_2)_n$ (morpholin-4-yl), $(CH_2)_n$ (piperidin-1-yl), $(CH_2)_n$ (4-methylpiperazin-1-yl), $N(SO_2CF_3)_2$, $(CH_2)_nCHO$, $(CH_2)_nSi(Me)_2H$, $(CH_2)_nSi(Et)_2H$, $(CH_2)_nSi(iPr)_2H$, $(CH_2)_nSi(tBu)_2H$, $(CH_2)_nSi(Ph)_2H$, $(CH_2)_nSi(Ph)(tBu)H$, $(CH_2)_nSi(Me)_2Cl$, $(CH_2)_nSi(Et)_2Cl$, $(CH_2)_nSi(i-Pr)_2Cl$, $(CH_2)_nSi(tBu)_2Cl$, $(CH_2)_nSi(Ph)_2Cl$, $(CH_2)_nSi(tBu)(Ph)Cl$, $P(Ph)_2$, $P(o-tolyl)_2$,

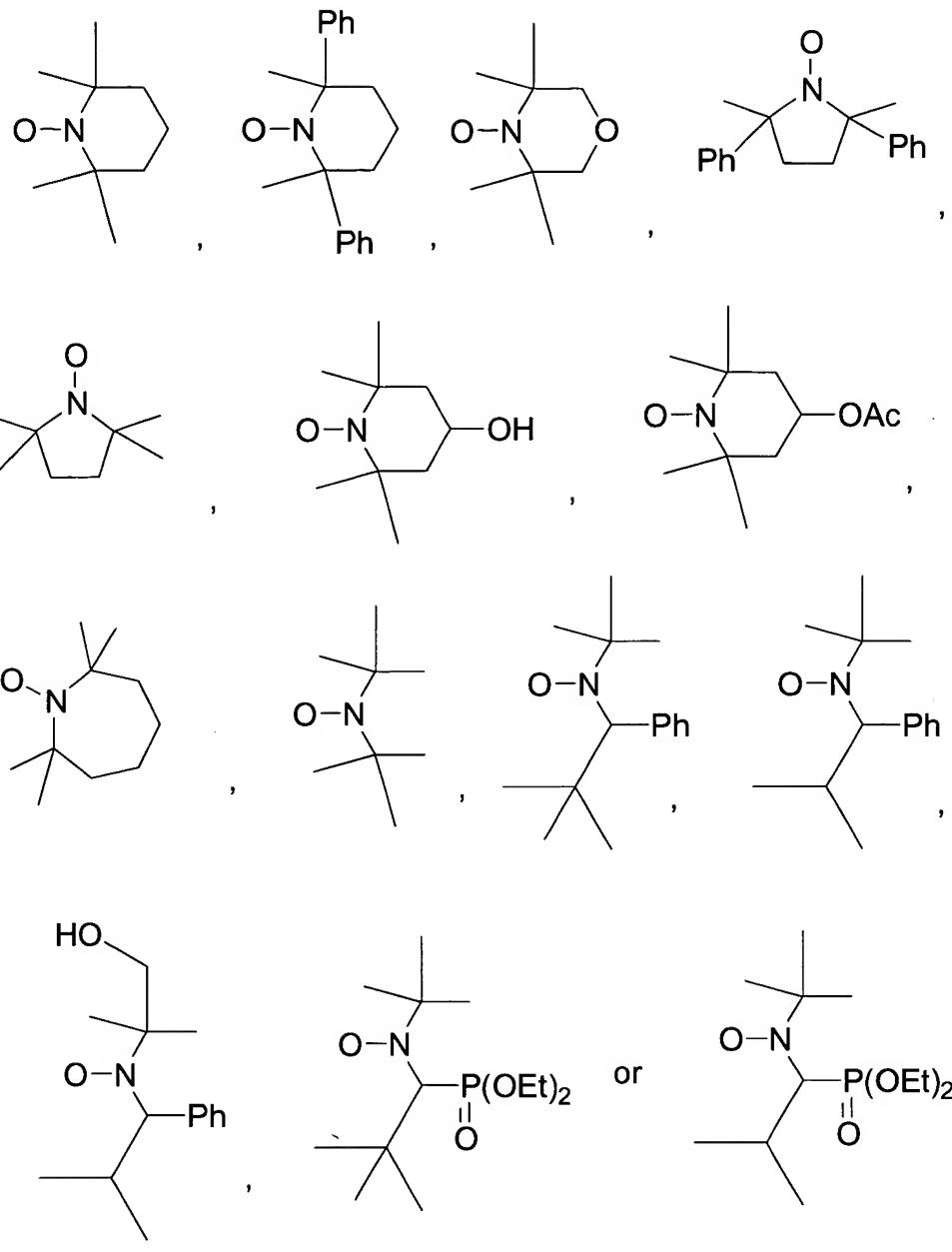


wherein n is zero or an integer from 1 to 5 ;

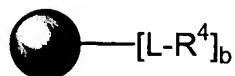
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO , CO_2Me , CO_2Et , $\text{CO}_2(\text{i-Pr})$, $\text{CO}_2(\text{n-Bu})$, $\text{CO}_2(\text{t-Bu})$, CN, CO_2H , COCl , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2Ph , $\text{CO}_2(\text{N-succinimidyl})$, $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_2$, $\text{CON}(\text{OCH}_3)\text{CH}_3$, CHO, CH_2OH , or $\text{C}(\text{CH}_3)_2\text{OH}$;
and

R^4 is

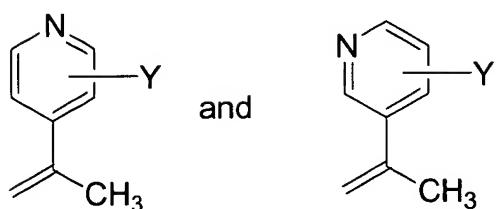
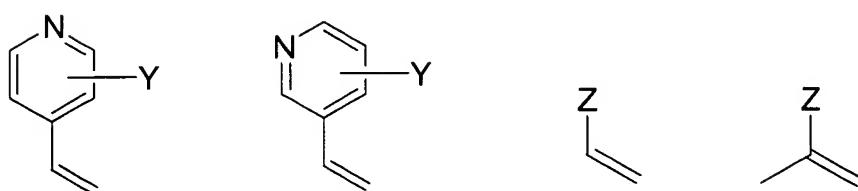
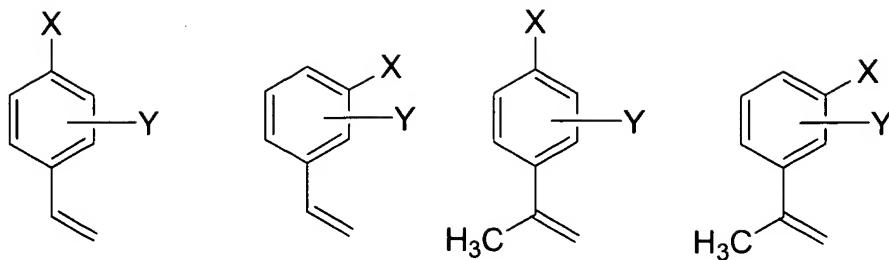


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

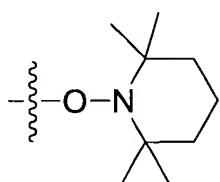


II

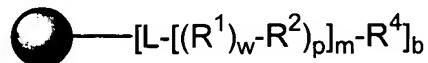
and a compound III selected from:



2. (Original) The process according to Claim 1 wherein R^4 is



3. (Original) A process for the preparation of a compound of the formula IV:



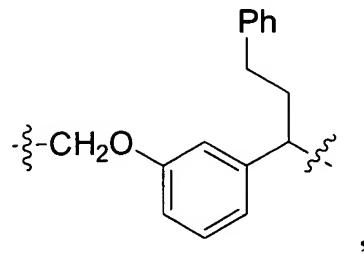
IV

wherein



is an insoluble solid support selected from the group consisting of:

poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-\text{CH}_2-$, $-\text{C}(\text{CH}_3)_2-$, $-\text{CH}(\text{CH}_3)-$, $-(\text{CH}_2)_n\text{CH}(\text{CN})-$, $-(\text{CH}_2)_n\text{CH}(\text{C}_0\text{O}_2\text{Me})-$, $-(\text{CH}_2)_n\text{CH}(\text{Ph})-$, $-(\text{CH}_2)_n\text{C}(\text{CH}_3, \text{Ph})-$, $-\text{CH}(\text{CH}_2\text{CH}_2\text{Ph})-$, or



n is zero or an integer from 1 to 5;

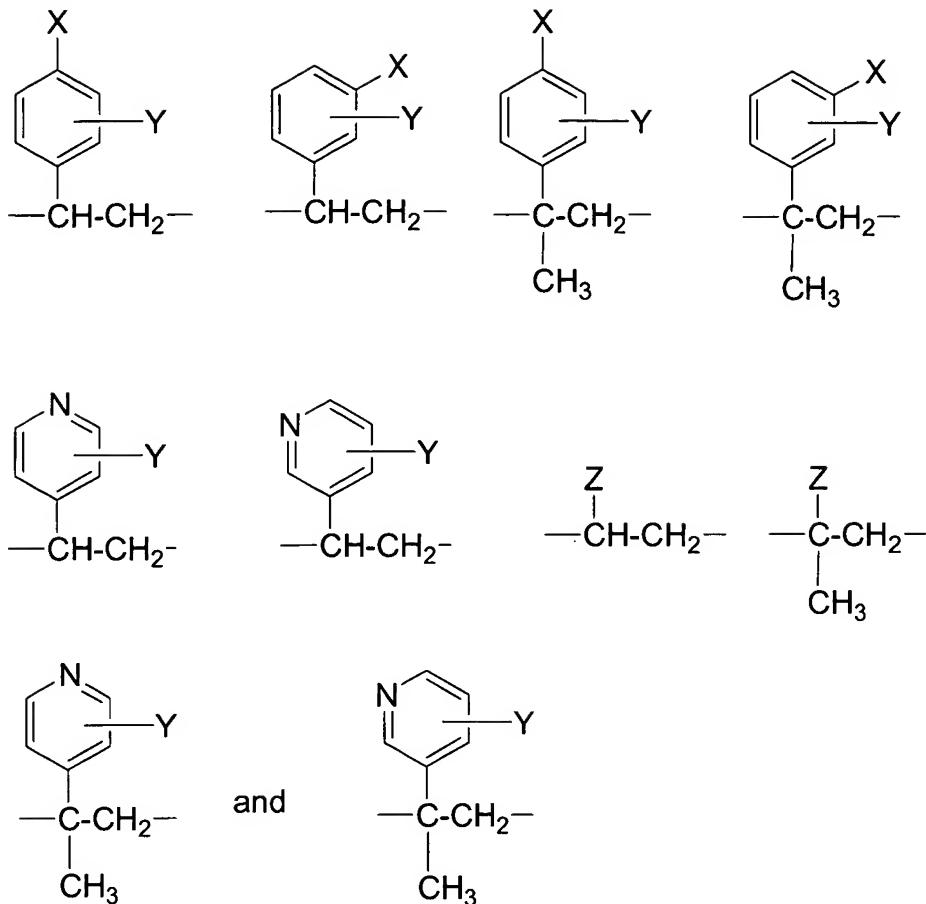
m is zero or an integer from 1 to 100;

w is an integer from 1 to 10;

p is zero or an integer from 1 to 10;

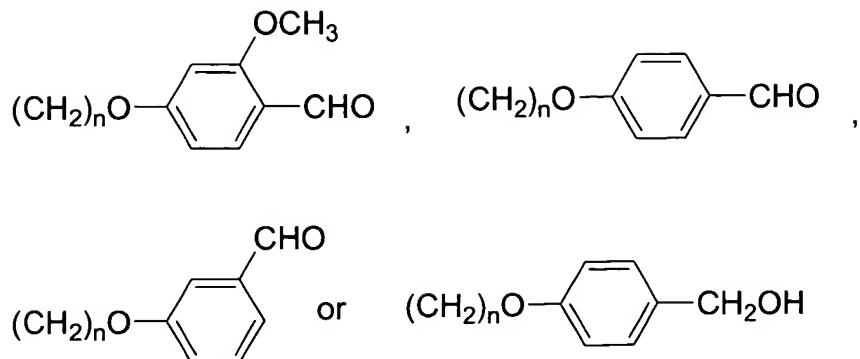
b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R^1 and R^2 are each independently the same or different and are selected from



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO , $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me , CO_2Et , $CO_2(t-Bu)$, CO_2H , $COCl$, $CO_2CH(CF_3)_2$, CO_2Ph , CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2 (N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_2OH$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$, $CH_2N(CH_2CH_2NH_2)_2$, $CH_2NHCH_2CH_2N(CH_2CH_2NH_2)_2$, $CH_2N(CH_2CH_2OH)_2$, $(CH_2)_n$ (morpholin-4-yl), $(CH_2)_n$ (piperidin-1-yl), $(CH_2)_n$ (4-methylpiperazin-1-yl), $N(SO_2CF_3)_2$, $(CH_2)_nCHO$, $(CH_2)_nSi(Me)_2H$, $(CH_2)_nSi(Et)_2H$, $(CH_2)_nSi(iPr)_2H$, $(CH_2)_nSi(tBu)_2H$, $(CH_2)_nSi(Ph)_2H$, $(CH_2)_nSi(Ph)(tBu)H$, $(CH_2)_nSi(Me)_2Cl$, $(CH_2)_nSi(Et)_2Cl$, $(CH_2)_nSi(i-Pr)_2Cl$, $(CH_2)_nSi(tBu)_2Cl$, $(CH_2)_nSi(Ph)_2Cl$, $(CH_2)_nSi(tBu)(Ph)Cl$, $P(Ph)_2$, $P(o-tolyl)_2$,

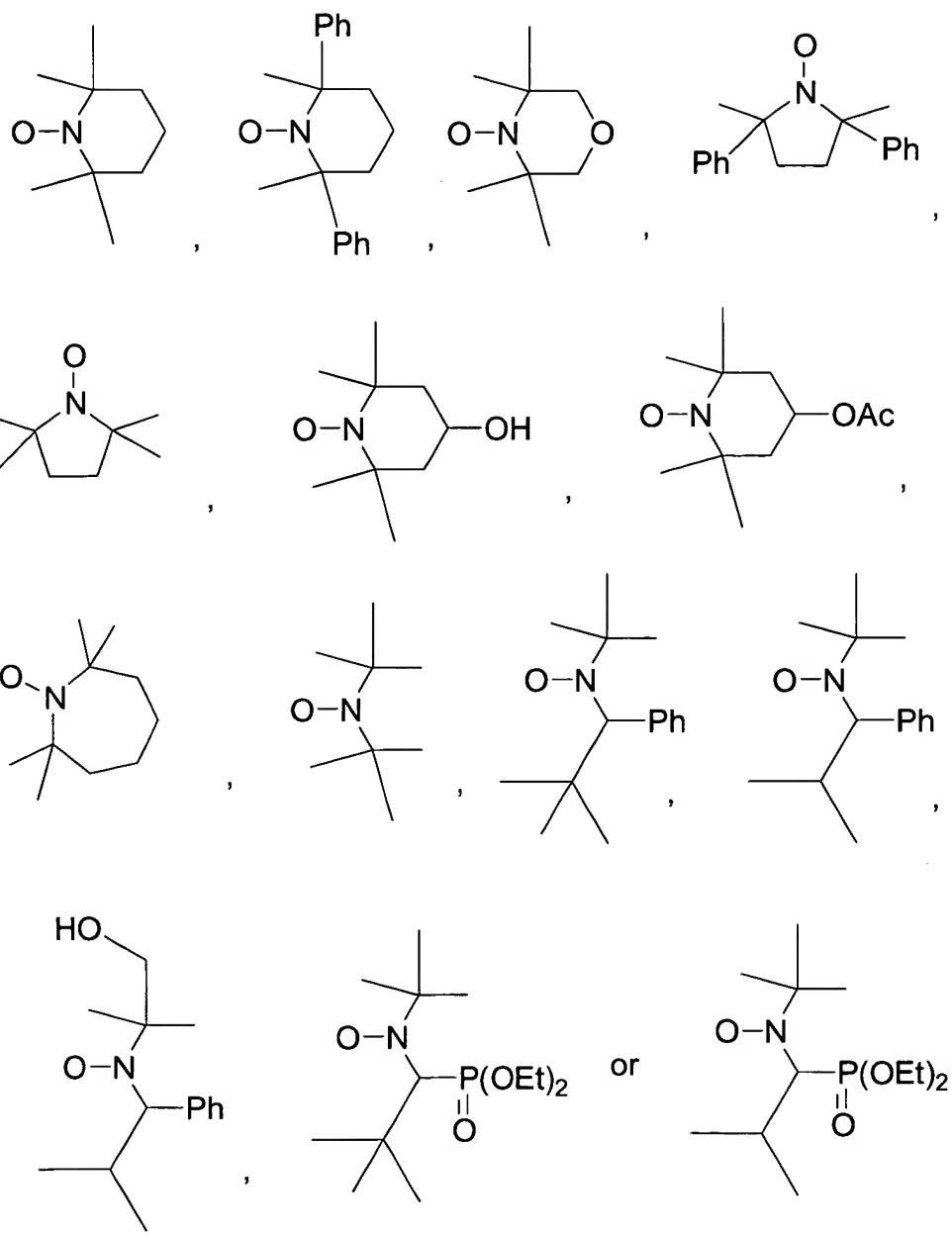


wherein n is zero or an integer from 1 to 5;

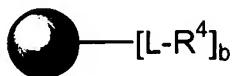
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO , CO_2Me , CO_2Et , CO_2 (i-Pr), CO_2 (n-Bu), CO_2 (t-Bu), CN, CO_2H , COCl , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2Ph , CO_2 (N-succinimidyl), $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_2$, $\text{CON}(\text{OCH}_3)\text{CH}_3$, CHO, CH_2OH , or $\text{C}(\text{CH}_3)_2\text{OH}$; and

R^4 is

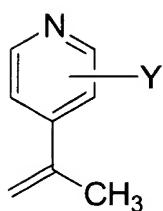
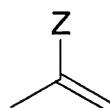
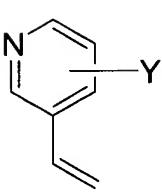
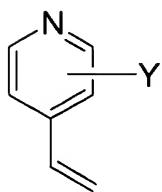
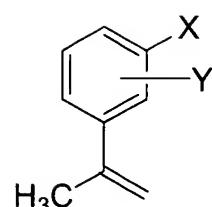
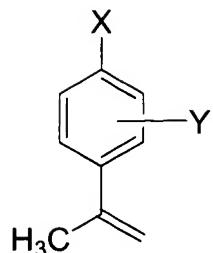
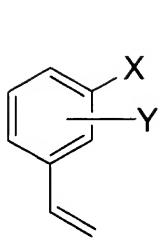
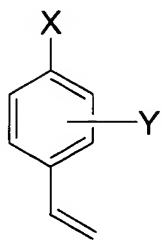


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

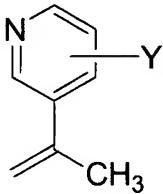


11

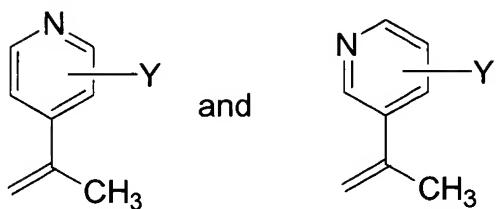
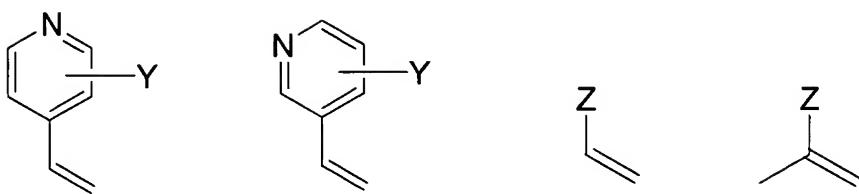
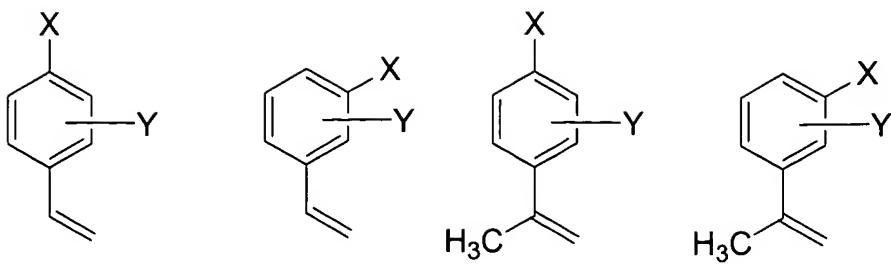
a compound III selected from:



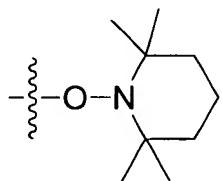
and



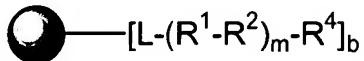
and a compound V selected from:



4. (Original) The process according to Claim 3 wherein R^4 is



5. (Original) A process for the preparation of a compound of the formula VI:



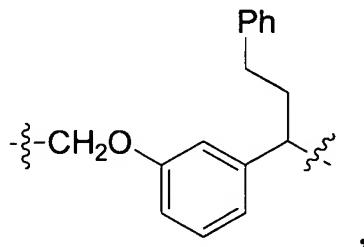
VI

wherein



is an insoluble solid support selected from the group consisting of:

poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is -CH₂-, -C(CH₃)₂-, -CH(CH₃)-, -(CH₂)_nCH(CN)-, -(CH₂)_nCH(CO₂Me)-, -(CH₂)_nCH(Ph)-, -(CH₂)_nC(CH₃, Ph)-, -CH(CH₂CH₂Ph)-, or



n is zero or an integer from 1 to 5;

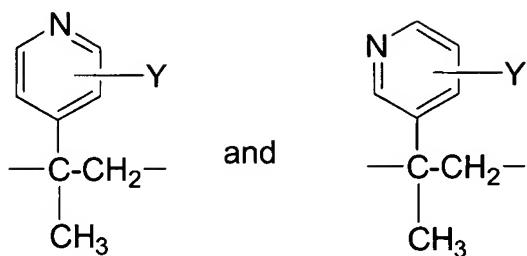
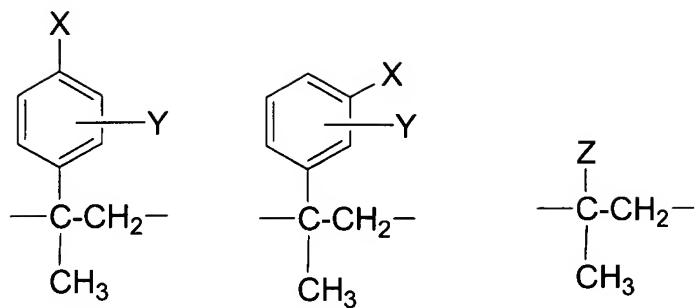
m is zero or an integer from 1 to 100;

w is an integer from 1 to 10;

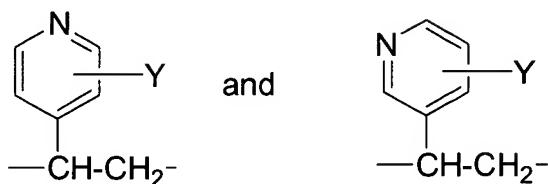
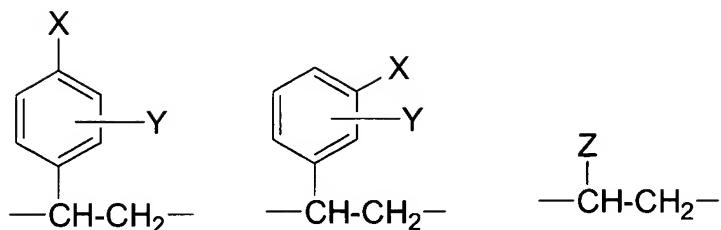
p is zero or an integer from 1 to 10;

b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R¹ is selected from



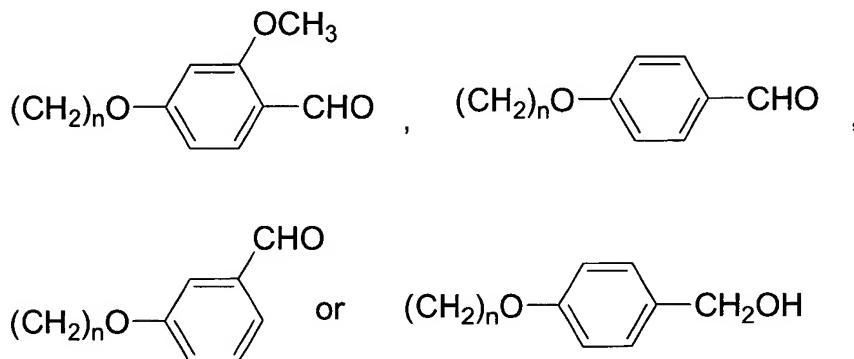
R^2 is selected from



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO , $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me , CO_2Et , $CO_2(t-Bu)$, CO_2H , $COCl$, $CO_2CH(CF_3)_2$, CO_2Ph , CO_2 (pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2 (N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_2OH$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$,

$\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{NHCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{NH}_2)_2$, $\text{CH}_2\text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$, $(\text{CH}_2)_n(\text{morpholin-4-yl})$, $(\text{CH}_2)_n(\text{piperidin-1-yl})$, $(\text{CH}_2)_n(4\text{-methylpiperazin-1-yl})$, $\text{N}(\text{SO}_2\text{CF}_3)_2$, $(\text{CH}_2)_n\text{CHO}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{iPr})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})(\text{tBu})\text{H}$, $(\text{CH}_2)_n\text{Si}(\text{Me})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Et})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{i-Pr})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{Ph})_2\text{Cl}$, $(\text{CH}_2)_n\text{Si}(\text{tBu})(\text{Ph})\text{Cl}$, $\text{P}(\text{Ph})_2$, $\text{P}(\text{o-tolyl})_2$,

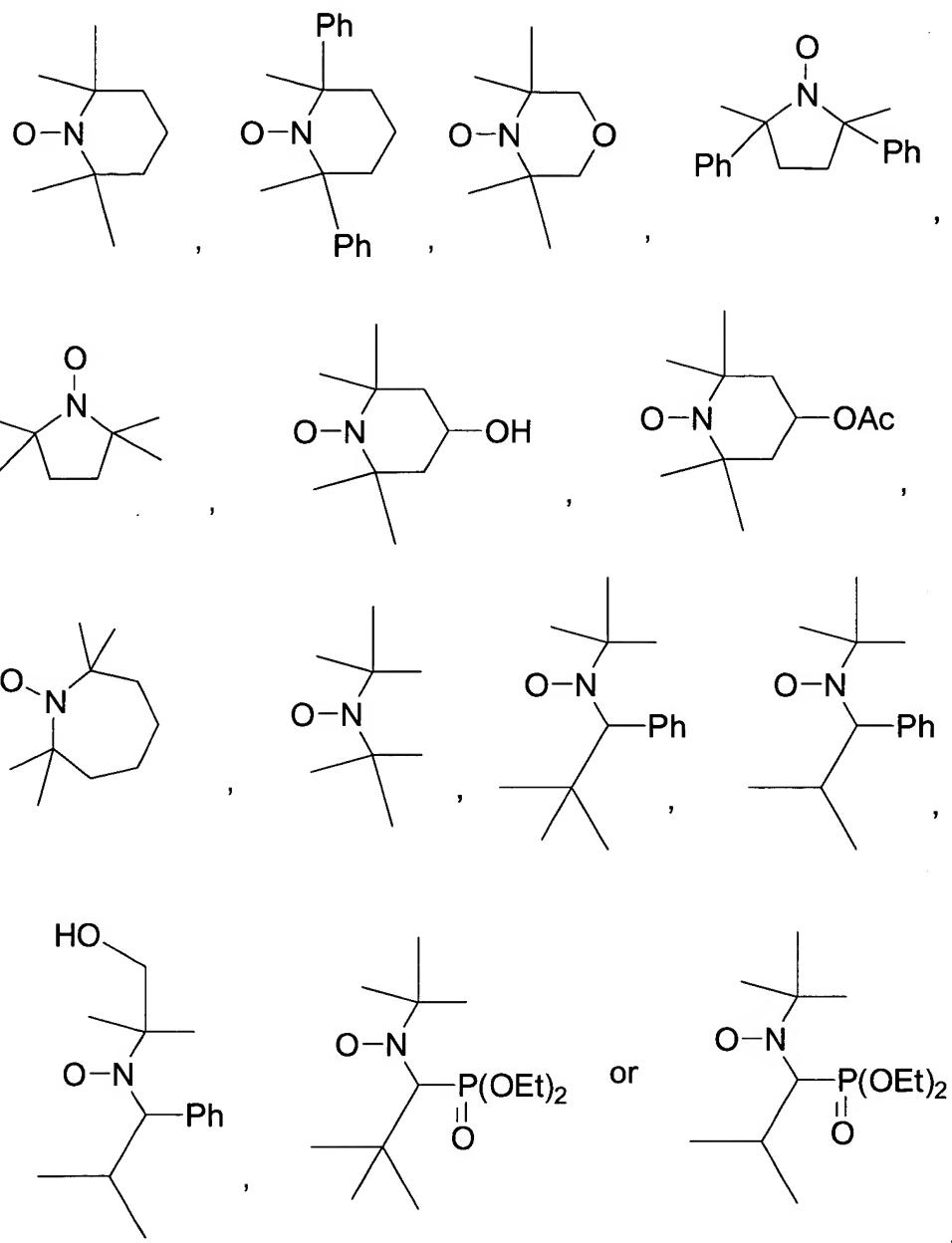


wherein n is zero or an integer from 1 to 5;

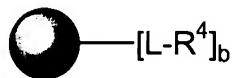
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO , CO_2Me , CO_2Et , $\text{CO}_2(\text{i-Pr})$, $\text{CO}_2(\text{n-Bu})$, $\text{CO}_2(\text{t-Bu})$, CN, CO_2H , COCl , $\text{CO}_2\text{CH}(\text{CF}_3)_2$, $\text{CO}_2(\text{pentafluorophenyl})$, $\text{CO}_2(\text{pentachlorophenyl})$, CO_2Ph , $\text{CO}_2(\text{N-succinimidyl})$, $\text{C}(\text{OMe})_3$, $\text{C}(\text{OEt})_2$, $\text{CON}(\text{OCH}_3)\text{CH}_3$, CHO, CH_2OH , or $\text{C}(\text{CH}_3)_2\text{OH}$; and

R^4 is

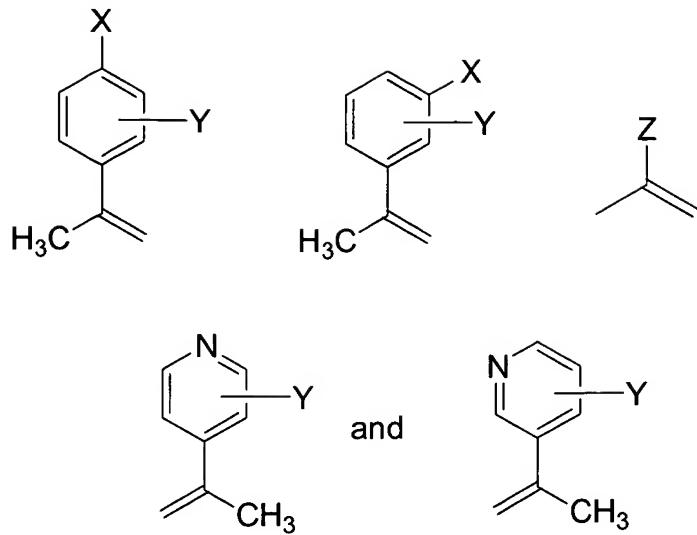


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

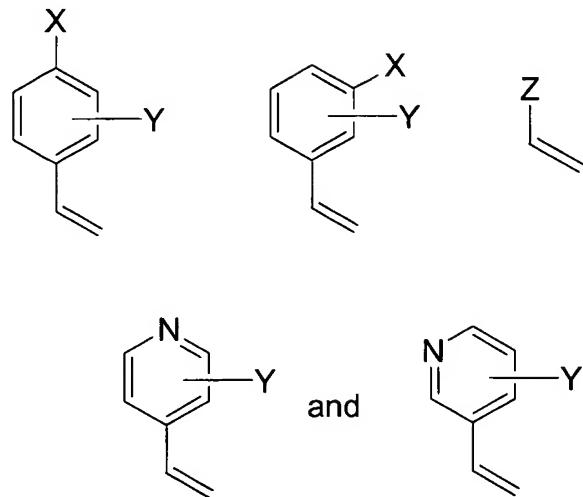


II

a compound VII selected from:

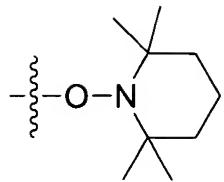


and a compound VIII selected from:



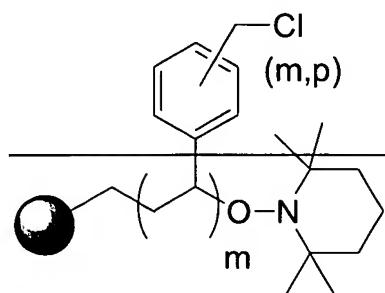
wherein the ratio of the compound VII and the compound VIII is about 2:1.

6. (Original) The process according to Claim 5 wherein R^4 is

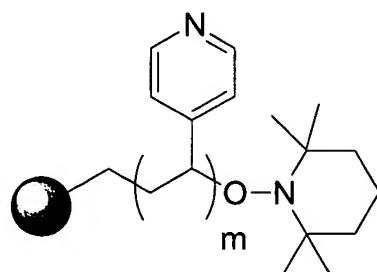


7. (cancelled)

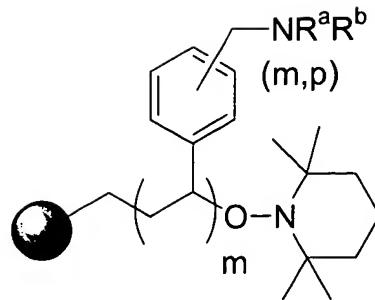
8. (Currently amended) A compound which is selected from:



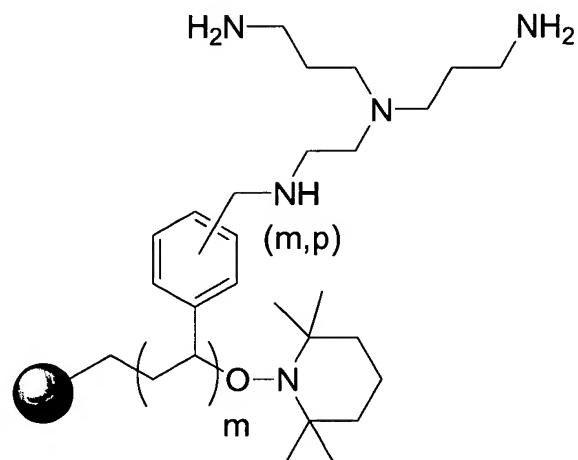
wherein  is a polystyrene resin, m is from 1 to 100 and the chlorine content is from about 5 to about 7 mmol/gram of resin;



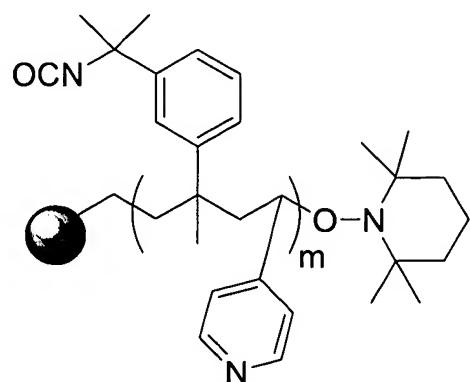
wherein  is a polystyrene resin, m is from 1 to 100 and the pyridyl content is from about 5 to about 7 mmol/gram of resin;



wherein is a polystyrene resin, m is from 1 to 100, $-\text{NR}^a\text{R}^b$ is selected from diethylamino, diisopropylamino, piperidinyl, morpholino and piperazinyl and the amine content is from about 4 to about 7 mmol/gram of resin;

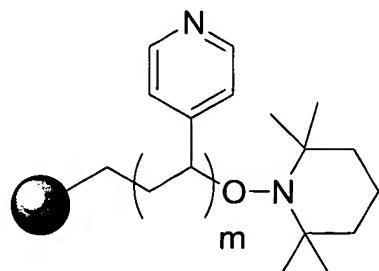


wherein is a polystyrene resin, m is from 1 to 100, and the amine content is from about 3 to about 6 mmol/gram of resin; and



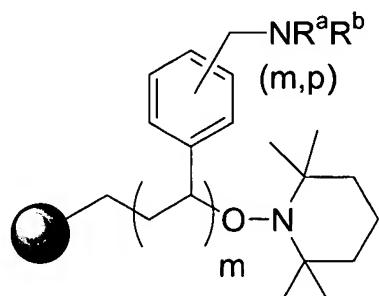
wherein  is a polystyrene resin, m is from 1 to 100, and the isocyanate content is from about 1 to about 4 mmol/gram of resin.

9. (previously presented) The compound according to Claim 13 8 which is



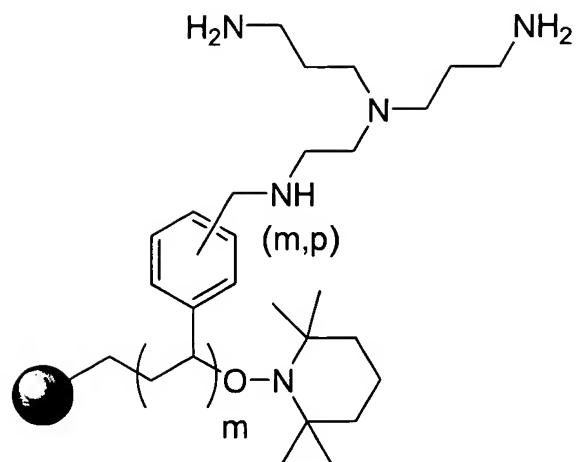
wherein  is a polystyrene resin, m is from 1 to 100 and the pyridyl content is from about 5 to about 7 mmol/gram of resin.

10. (previously presented) The compound according to Claim 13 8 which is



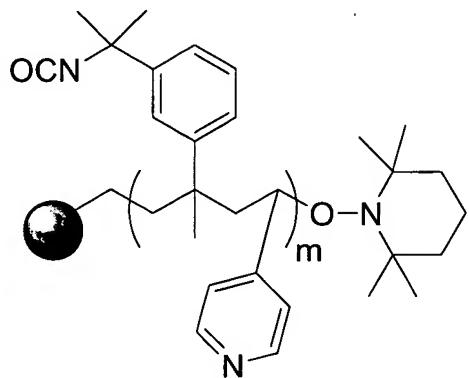
wherein  is a polystyrene resin, m is from 1 to 100, $-\text{NR}^a\text{R}^b$ is selected from diethylamino, diisopropylamino, piperidinyl, morpholino and piperazinyl and the amine content is from about 4 to about 7 mmol/gram of resin.

11. (previously presented) The compound according to Claim 13 8 which is



wherein  is a polystyrene resin, m is from 1 to 100, and the amine content is from about 3 to about 6 mmol/gram of resin.

12. (previously presented) The compound according to Claim 13 8 which is



wherein  is a polystyrene resin, m is from 1 to 100, and the isocyanate content is from about 1 to about 4 mmol/gram of resin.

13. (cancelled)

14. (cancelled)